



Ecoson Belgium

Toekomst van de Bio-economie in Vlaanderen

Thomas Anné

20-11-2024

An aerial photograph of a lush green landscape featuring terraced fields. The fields are arranged in concentric, wavy patterns that follow the contours of the land, creating a rhythmic, organic design. The color is a vibrant, deep green, suggesting healthy vegetation. The perspective is from directly above, looking down at the terrain.

We repurpose and recycle materials
from the animal agriculture and
food industries.

Our operating segments

We repurpose approximately 16 million metric tons of material from the animal agriculture and food industries. We breathe new life into these resources, helping to feed people and pets, provide health and wellness solutions and fuel the world with renewable energy.

Feed

Producing essential ingredients for animal nutrition, fertilizers and renewable fuels

15% global by-product market share

Food

A global leader in ingredients that enhance human health and wellbeing

30% global market share of gelatin and collagen

Fuel

Powering the future with low-emission energy solutions

~1.2 billion gallons of renewable fuel produced annually

*Information above is based on 2023 data

Our global presence



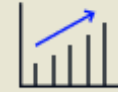
260+ Locations
Worldwide
Operating on 5 continents



15,000+
Employees

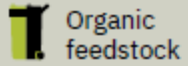


Global Headquarters
Irving, Texas USA



Publicly Traded
since 1994 (NYSE: DAR)

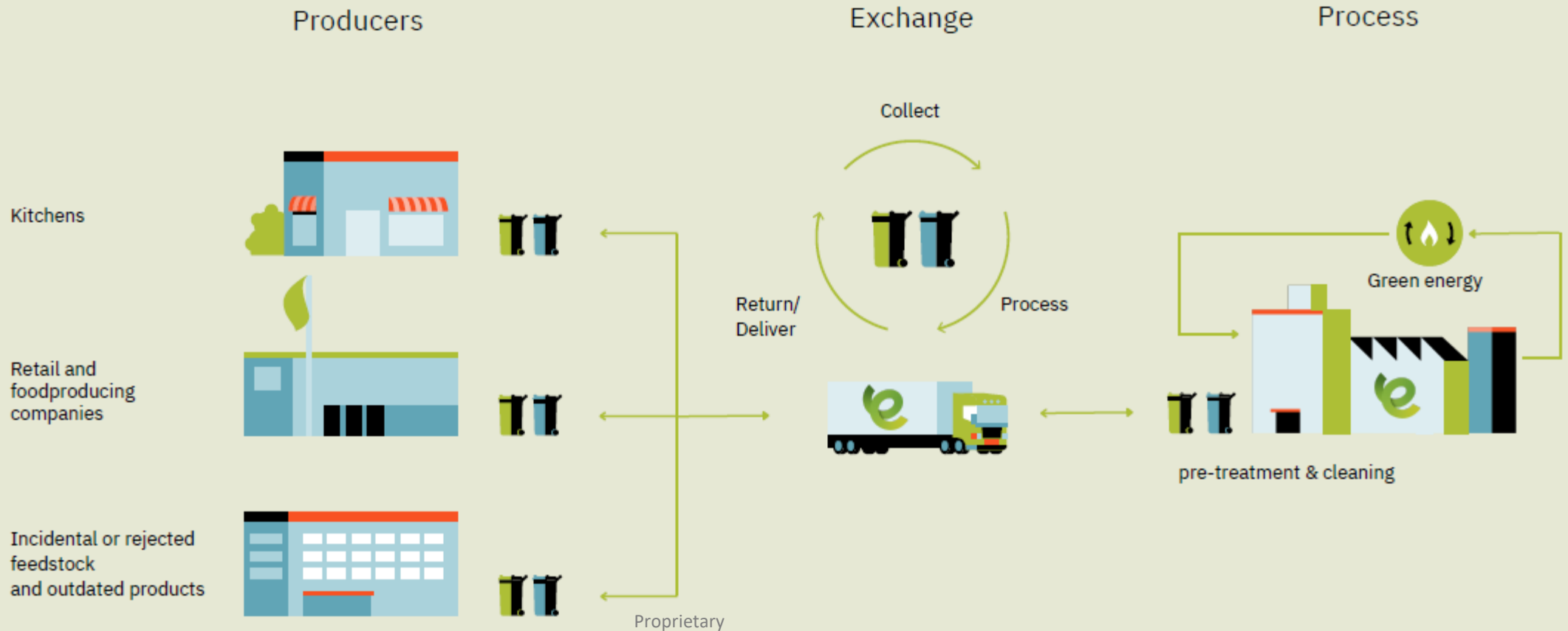
Ecoson collection & recycling



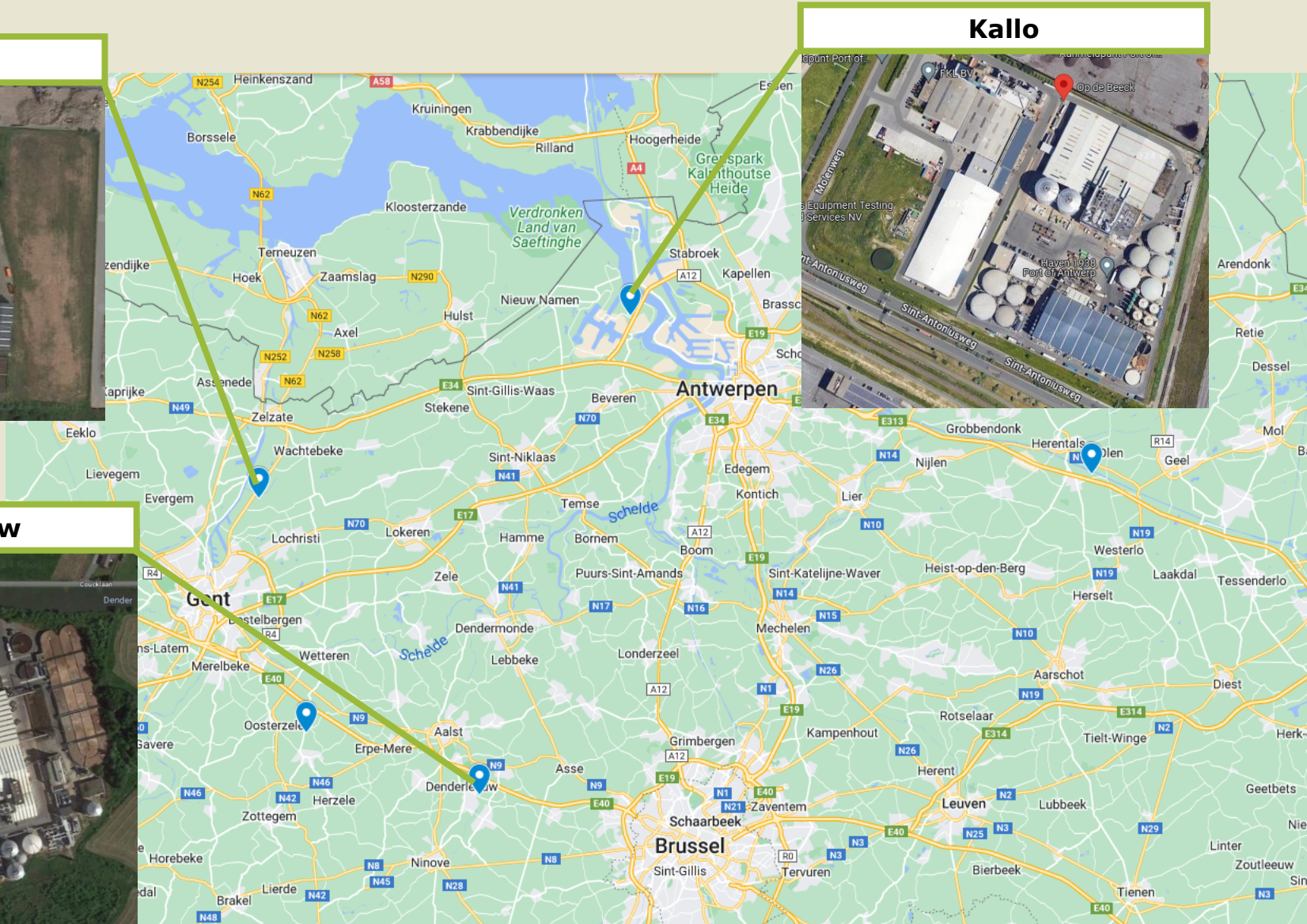
Organic feedstock

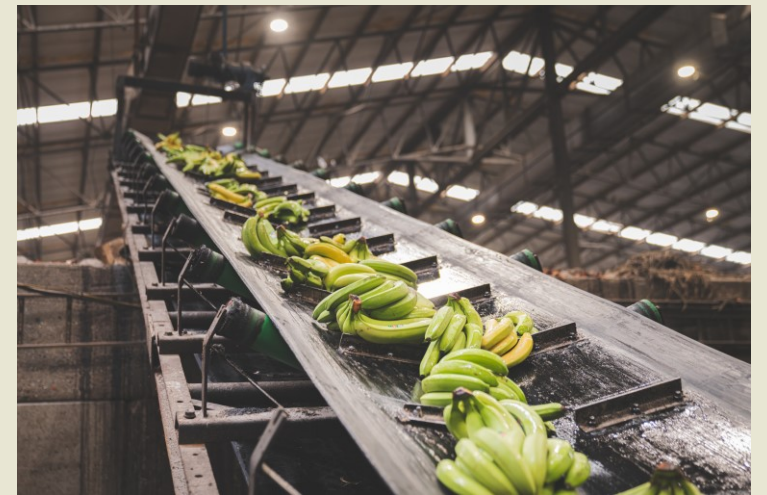


Used Cooking oils



Sitemap Ecoson Belgium

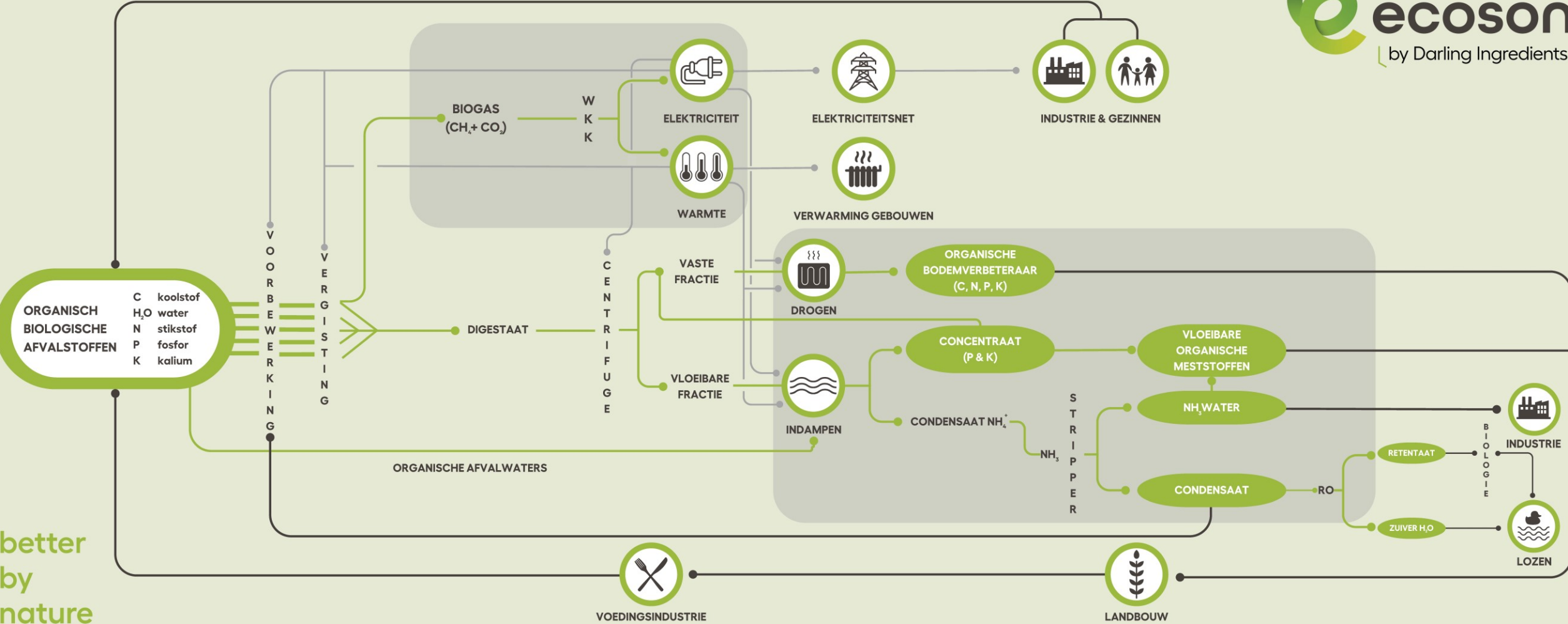








Ecoson Processing



better by nature



Facts & figures

250

Ktons of organic feedstock.

12

MW of electricity production out of biogas, (30 K households)

50

Ktons of organic feedstock for fertilizer market.

3,5

Ktons of NH₃-water (DeNox),

150

Km³ proceswater reuse, (60 Olympic pools)

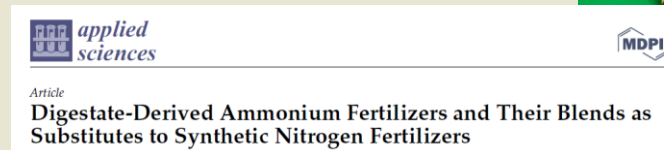
45

Ktons of CO₂-emission reduction. (20 K cars)

Innovation



- B2B synergies
 - NH₃-water as biobased deNOX-reagent.
 - Reuse of recovered sulfuric acid for air cleaning (Symbioseplatform OVAM).
 - Energy & utilities : clean water, electricity, heat to neighboring companies <-> steam from Ecluse?
- In-house (process) optimisations
 - Struvite precipitation to recover phosphorus (EU Critical Raw Materials Act) <-> local agriculture.
 - Hybrid CHP <-> biomethane (REPowerEU Plan).
 - NH₃-water purification steps <-> direct use.
- Public projects
 - Smartlife (LIFE-Integrated Project) : inorganic impurities, plastic recycling.
 - WASTE2FUNC (H2020-BBI-JTI-2020) : biorefinery to lactic acid and biosurfactants.
 - WhenNatureCalls (Vlaanderen Circulair) : recycling human waste.
 - Nutri2Cycle (Horizon 2020) : digestate based fertilizers.



Innovation bottlenecks

- Alternative valorisation routes → challenges
 - Techno-economical : feasibility
 - **Regulation : waste <-> product, cross-border**
 - **Market readiness : interest in recycled products, benchmark market standard**
 - Variety : multiple possible pathways, way to go?
 - Waste/feedstock sourcing : selection and collection of waste
- How to help?
 - It's all about the money : direct incentives <-> market mechanism (ex. ETS).
 - Clear legal cross-border frameworks : waste <-> product.
 - Recycled content standards/benchmarks : virgin resources <-> equal substitute.



Thank you !